Cruise control

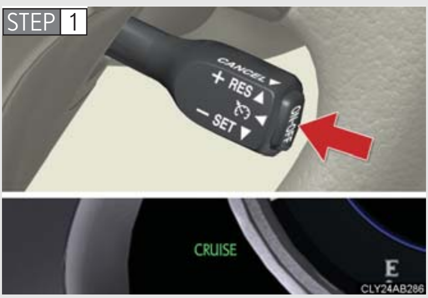
Use the cruise control to maintain a set speed without using the accelerator.



1 Indicator

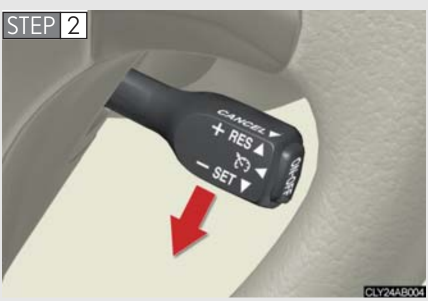
2 Cruise control switch

■ Set the vehicle speed



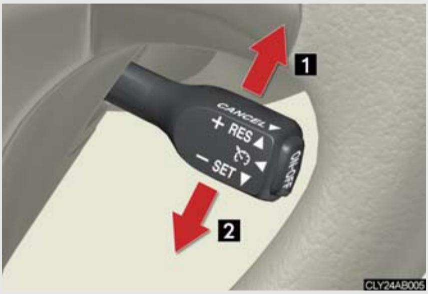
Turn the "ON-OFF" button on.

Push the button once more to deactivate the cruise control.



Accelerate or decelerate to the desired speed and press the lever down to set the cruise control speed.

Adjusting the speed setting



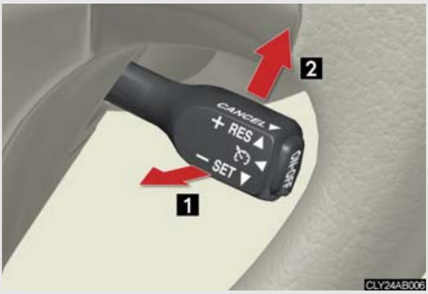
1 Increase speed

2 Decrease speed

Hold the lever until the desired speed setting is obtained.

Fine adjustment of the set speed (approximately 1.0 mph [1.6 km/h]) can be made by lightly pressing the lever up or down and releasing it.

Canceling and resuming regular acceleration



1 Cancel

Push the lever towards you to cancel cruise control.

The speed setting is also canceled when the brakes are applied or the clutch (manual transmission) is depressed.

2 Resume

To resume cruise control and return to the set speed, push the lever up.

- **Cruise control can be set when**
  - Vehicles with an automatic transmission: the shift lever is in the D position or S position. However, it cannot be set if any of the ranges 1 through 3 has been selected.
  - Vehicle speed is more than approximately 25 mph (40 km/h).
- **Accelerating**

  The vehicle can be accelerated normally. After acceleration, the set speed resumes.
- **Automatic cruise control cancellation**

  The set speed is automatically cancelled in any of the following situations.
  - Actual vehicle speed falls more than 10 mph (16 km/h) below the preset vehicle speed
    At this time, the memorized set speed is not retained.
  - Actual vehicle speed is below 25 mph (40km/h)
  - VSC is activated
- **If the cruise control indicator light flashes**

  Turn the "ON-OFF" button off once, and then reactivate the system.
  If the cruise control speed cannot be set or if the cruise control cancels immediately after being activated, there may be a malfunction in the cruise control system. Have the vehicle inspected by your Lexus dealer.

CAUTION

- **To avoid operating the cruise control by mistake**

  Keep the “ON-OFF” button off when not in use.

- **Situations unsuitable for cruise control**

  Do not use cruise control in any of the following situations.
  Doing so may result in control of the vehicle being lost and could cause an accident resulting in death or serious injury.

  - In heavy traffic
  - On roads with sharp bends
  - On slippery roads, such as those covered with rain, ice or snow
  - On steep hills
  - On winding roads
  - When your vehicle is towing anything

Intuitive parking assist*

The distance to obstacles measured by the sensors is communicated via the multi-information display and a buzzer when parallel parking or maneuvering into a garage. Always check the surrounding area when using this system.

▶ With navigation system

For vehicles equipped with a navigation system, refer to the separate "Navigation System Owner's Manual" for further details.

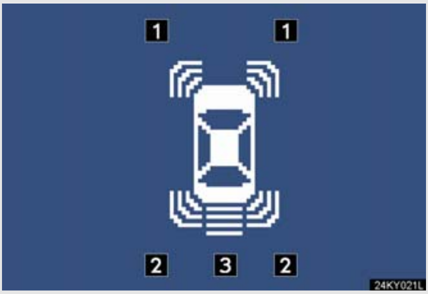
▶ Without navigation system

Types of sensors



1 Front corner sensors
2 Rear corner sensors
3 Back sensors

Multi-information display (→P. 160)



1 Front corner sensor operation
2 Rear corner sensor operation
3 Back sensor operation

*: If equipped

■ **Intuitive parking assist switch (→P. 329)**



When on, an indicator is displayed to inform the driver that the function is operational.

The distance display and buzzer

When a sensor detects an obstacle, the direction of and the approximate distance to the obstacle are displayed and the buzzer sounds.

■ **Front corner sensors**

Multi-information display	Approximate distance to obstacle	Buzzer
	1.6 to 1.3 ft. (50 to 40 cm)	Medium
	1.3 to 1.0 ft. (40 to 30 cm)	Fast
	1.0 ft. (30 cm) or less	Continuous

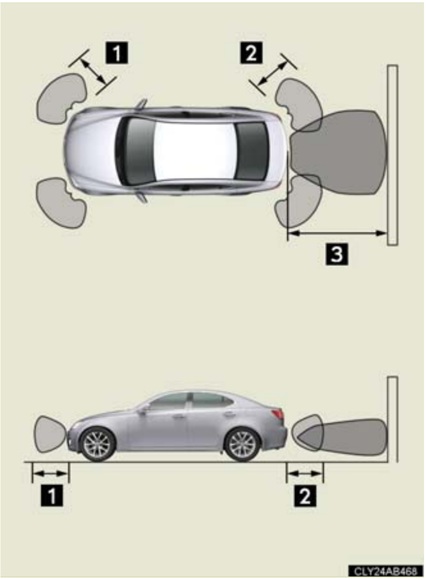
Rear corner sensors

Multi-information display	Approximate distance to obstacle	Buzzer
	1.6 to 1.2 ft. (50 to 37.5 cm)	Medium
	1.2 to 0.8 ft. (37.5 to 25 cm)	Fast
	0.8 ft. (25 cm) or less	Continuous

Back sensors

Multi-information display	Approximate distance to obstacle	Buzzer
	4.9 to 2.0 ft. (150 to 60 cm)	Slow
	2.0 to 1.5 ft. (60 to 45 cm)	Medium
	1.5 to 1.1 ft. (45 to 35 cm)	Fast
	1.1 ft. (35 cm) or less	Continuous

Detection range of the sensors



1 Approximately 1.6 ft. (50 cm)
2 Approximately 1.6 ft. (50 cm)
3 Approximately 4.9 ft. (150 cm)

The diagram shows the detection range of the sensors. Note that the sensors cannot detect obstacles that are extremely close to the vehicle.

The range of the sensors may change depending on the shape of the object etc.

Sensor detection information

- Certain vehicle conditions and the surrounding environment may affect the ability of the sensor to correctly detect obstacles. Particular instances where this may occur are listed below.
  - There is dirt, snow or ice on the sensor.
  - The sensor is frozen.
  - The sensor is covered in any way.
  - The vehicle is leaning considerably to one side.
  - On an extremely bumpy road, on an incline, on gravel, or on grass.
  - The vicinity of the vehicle is noisy due to vehicle horns, motorcycle engines, air brakes of large vehicles, or other loud noises producing ultrasonic waves.
  - There is another vehicle equipped with parking assist sensors in the vicinity.
  - The sensor is coated with a sheet of spray or heavy rain.
  - The vehicle is equipped with a fender pole or wireless antenna.
  - Towing eyelets are installed.
  - The bumper or sensor receives a strong impact.
  - The vehicle is approaching a tall or curved curb.
  - In harsh sunlight or intense cold weather.

In addition to the examples above, there are instances in which, because of their shapes, signs and other objects may be judged by the sensor to be closer than they are.

- The shape of the obstacle may prevent the sensor from detecting it. Pay particular attention to the following obstacles.
  - Wires, fences, ropes etc.
  - Cotton, snow and other materials that absorb radio waves
  - Sharply-angled objects
  - Low obstacles
  - Tall obstacles with upper sections projecting outwards in the direction of your vehicle

When the display flashes and a message is displayed

→P. 470

n **Certification**

▶ For vehicles sold in the U.S.A.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

▶ For vehicles sold in Canada

This ISM device complies with Canadian ICES-001.

Cet appareil ISM est conforme à la norme NMB-001 du Canada.

n **Customization that can be configured at Lexus dealer**

Settings (e.g. buzzer volume) can be changed. (Customizable features →P. 540)

CAUTION

n **Caution when using the intuitive parking sensor**

Observe the following precautions.
Failing to do so may result in the vehicle being unable to be driven safely and possibly cause an accident.

l Do not use the sensor at speeds in excess of 6 mph (10 km/h).

l Do not attach any accessories within the sensor range.

NOTICE

n **Notes when washing the vehicle**

Do not apply intensive bursts of water or steam to the sensor area.
Doing so may result in the sensor malfunctioning.

Driving assist systems

To help enhance driving safety and performance, the following systems operate automatically in response to various driving situations. Be aware, however, that these systems are supplementary and should not be relied upon too heavily when operating the vehicle.

ABS (Anti-lock Brake System)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

Brake assist

Generates an increased level of braking force after the brake pedal is depressed, when the system detects a panic stop situation.

VSC (Vehicle Stability Control)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

TRAC (Traction Control)

Maintains drive power and prevents the rear wheels (2WD models) or all wheels (AWD models) from spinning when starting the vehicle or accelerating on slippery roads.

Hill-start assist control (vehicles with an automatic transmission)

Helps to prevent the vehicle from rolling backward when starting on an incline or slippery slope.

EPS (Electric Power Steering)

Employs an electric motor to reduce the amount of effort needed to turn the steering wheel.

n VDIM (Vehicle Dynamics Integrated Management)

Provides integrated control of the ABS, brake assist, TRAC, VSC, hill-start assist control, and EPS systems.
Helps to maintain vehicle stability when swerving on slippery road surfaces by controlling the brakes, engine output and steering assist.

When the VSC/TRAC/hill-start assist control systems are operating



The slip indicator light flashes to indicate that the VSC/TRAC/hill-start assist control systems have been engaged.

The stop lights and high mounted stoplight turn on when the hill-start assist control system is operating.

To disable TRAC/VSC

If the vehicle gets stuck in fresh snow or mud, TRAC and VSC may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.

n Turning off TRAC



Quickly push and release the button to turn off TRAC.

A message will be shown on the multi-information display.

Push the button again to turn the system back on.

n Turning off TRAC and VSC



Push and hold the button for more than 3 seconds while the vehicle is stopped to turn off TRAC and VSC.

A message will be shown on the multi-information display and the VSC off indicator light will come on.

Push the button again to turn the system back on.

- **Automatic reactivation of the TRAC/VSC systems**

  If the TRAC/VSC systems are turned off, re-starting the engine will automatically reactivate them.

- **Automatic TRAC reactivation**

  If only the TRAC system is turned off, the TRAC system will turn on when vehicle speed increases.

- **Automatic TRAC and VSC reactivation**

  If the TRAC and VSC systems are turned off, the systems will not turn on even when vehicle speed increases.

- **Sounds and vibrations caused by the ABS, brake assist, VSC, TRAC and hill-start assist control systems**

  - A sound may be heard from the engine compartment if the brake pedal is depressed repeatedly when the engine is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in any of these systems.
  - Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
    - Vibrations may be felt through the vehicle body and steering.
    - A motor sound may be heard after the vehicle comes to a stop.
    - The brake pedal may pulsate slightly when the ABS is activated.
    - The brake pedal may move down slightly after the ABS is activated.

- **Hill-start assist control is operational when**
  - The shift lever is in the D or S position.
  - The brake pedal is not depressed.
  - The vehicle rolls backward.
- **EPS operation sound**

  When the steering wheel operates, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.
- **Reduced effectiveness of EPS**

  The effectiveness of EPS is reduced to prevent the system from overheating when there is frequent steering input over an extended period of time. The steering wheel may feel heavy as a result. Should this occur, refrain from excessive steering input or stop the vehicle and turn the engine OFF. The system should return to normal within 10 minutes.
- **If the slip indicator comes on**

  It may indicate a malfunction in the VSC, TRAC or hill start assist control function. Contact your Lexus dealer.

CAUTION

- **The ABS does not operate effectively when**
  - The limits of tire gripping performance have been exceeded.
  - The vehicle hydroplanes while driving at high speed on the wet or slick road.
- **Stopping distance when the ABS is operating will exceed that of normal conditions**

  The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a safe distance from the vehicle in front of you in the following situations.
  - When driving on dirt, gravel or snow-covered roads
  - When driving with tire chains
  - When driving over bumps in the road
  - When driving over roads with potholes or roads with uneven surfaces

CAUTION

- **TRAC may not operate effectively when**

  Directional control and power may not be achievable while driving on slippery road surfaces, even if the TRAC system is operating.
  Do not drive the vehicle in conditions where stability and power may be lost.

- **If hill-start assist control does not operate effectively (vehicles with an automatic transmission)**

  Do not overly rely on the hill-start assist control. The hill-start assist control may not operate effectively on steep inclines and roads covered in ice.

- **When the VSC is activated**

  The slip indicator light flashes. Always drive carefully. Reckless driving may cause an accident. Exercise particular care when the indicator light flashes.

- **When TRAC and VSC are off**

  Be especially careful and drive at a speed appropriate to the road conditions. As these are systems to ensure vehicle stability and driving force, do not turn off TRAC and VSC unless necessary.

- **Replacing tires**

  Make sure that all tires are of the specified size, brand, tread pattern and total load capacity. In addition, make sure that the tires are inflated to the recommended tire pressure level.

  The ABS, VSC and TRAC systems will not function correctly if different tires are fitted on the vehicle.
  Contact your Lexus dealer for further information when replacing tires or wheels.

- **Handling of tires and suspension**

  Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause the system to malfunction.